Ticket queue

To use a take-home service from one restaurant, customer have to receive ticket queue (new). When staff (there is only 1 staff) is ready, he will call for the next queue (next). Then, customer with the queue will be allowed to order. The manager wants to analyze time which customer wait to order, so he implemented the program to manage the problem.

Input

- The first line is n that is a positive integer describe the number of the command lines follow this line.
- Next n line are commands of ticket queue system. Each line has 1 command which has pattern like in the table below

Commands	Meanings	Displayed output	
reset n	setting the starting	Nothing to display	
	number of the next		
	queue to n		
	(Only call once when		
	start the queue)		
new t	customer receives:	ticket n, n is the latest queue number on the	
	ticket queue on time t	ticket queue	
		(n will increased by 1, whenever new command	
		is called.)	
next	staff is ready to receive	call n, n is the next queue ticket number	
	the next order from	waiting to order.	
	customer		
order t	staff receive an order	qtime n dt, where n is the queue number just	
	from a customer (who	called by "next". dt is the waiting time the	
	was the latest called	customer holding this ticket spent since	
	from next) at time t	"new" to "order".	
avg_qtime	display average waiting	avg_qtime x, where x is the average waiting	
	time of all customers	time customer spent from the beginning of the	
		program to the latest order time.	

who have come since	(Round the number before displaying with
the program started.	round (avg, 4), where avg is the average time)
(Only call when service	
was served.)	

Noted: Time **t** is not in hour or minute but is an integer (see in example.)

Noted 2: All commands will always be correct and in correct order.

Output

The output will be displayed like in the table above.

Example

Example					
Input (from keyboard)	Output (on screen)				
4	ticket 301				
reset 301	ticket 302				
new 1100	call 301				
new 1110					
next					
6	ticket 301				
reset 301	ticket 302				
new 1100	call 301				
new 1110	qtime 301 20	← 20 is from 1120 - 1100			
next	avg qtime 20.0	\leftarrow 20.0 is from 20/1			
order 1120	·	•			
avg qtime					
8	ticket 301				
reset 301	ticket 302				
new 1100	call 301				
new 1110	qtime 301 20				
next	call 302				
order 1120		← 40 is from 1150 - 1100			
next	avg_qtime 30.0	\leftarrow 30.0 is from (20+40)/2			
order 1150					
avg qtime					
14	ticket 301				
reset 301	ticket 302				
new 1100	call 301				
new 1110	qtime 301 20				
next	ticket 303				
order 1120		← queue302 is absent			
new 1130		← queue303 is called			
next		← 30 is from 1160 - 1130			
next		\leftarrow 25.0 is from (20+30)/2			
order 1160	ticket 304				
avg qtime	call 304				
new 1170	qtime 304 10				
next	avg_qtime 20.0	← 30.0 is from (20+30+10)/3			
order 1180					
avg qtime					

```
Assign value to the variables
                            # List q collects proper ticket queues.
q = list()
n = int(input())
                            # Number of commands.
for k in range(n):
    c = input().split() # Read commands.
    if c[0] == 'reset':
        ???
    elif c[0] == 'new':
        ???
    elif c[0] == 'next':
        ???
    elif c[0] == 'order':
        ???
    elif c[0] == 'avg_qtime':
        ???
        print( ???, round(???,4) )
```